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ASSURE APP PERFORMANCE ON COMPOSABLE INFRASTRUCTURE

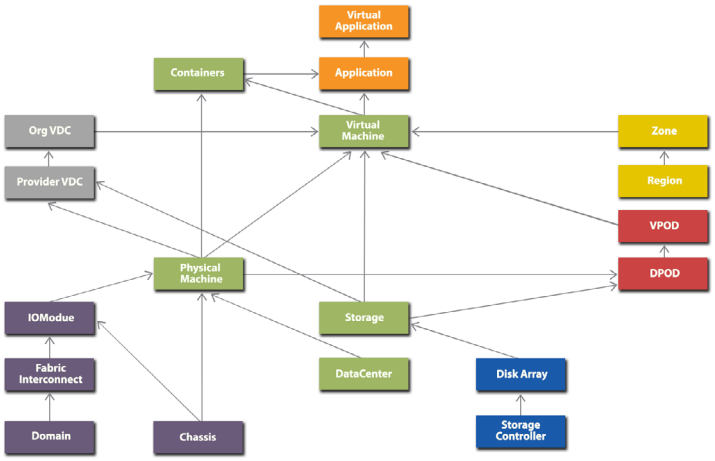
HPE and Turbonomic Solution for Assuring Application Performance at Scale

Turbonomic and Hewlett Packard Enterprise (HPE) enable customers to accelerate their transition to hybrid infrastructure, delivering the application performance end-users demand.

ACCELERATE HYBRID INFRASTRUCTURE

Organizations are accelerating their adoption of hybrid infrastructure to satisfy demands for new apps, increase use of data and analytics, and deliver a digital consumer experience. Innovative technologies like Turbonomic can help you meet these demands through a unique approach to assuring the performance of any application on any cloud.

Turbonomic's patented decision-engine dynamically analyzes application demand and automatically allocates shared resources to all applications maintaining a perpetual state of health. Turbonomic provides intelligent placement, sizing and provisioning decisions across the HPE infrastructure.



In a composable infrastructure, fluid pools of resources are controlled programmatically to accelerate time to value. Rather than being pre-configured for a single workload, composable infrastructure is customer re-configurable, through a software- defined intelligence and a unified API, native in HPE OneView, to become whatever is needed. Turbonomic attaches to HPE OneView to provide automatable placement, sizing, and provisioning decisions. With Turbonomic, HPE OneView customers are empowered to deliver predictable application quality of service while fully leveraging the HPE infrastructure. Using this integrated solution, customers can:

- **Assure application performance** - automate placement, sizing and provisioning decisions across shared resources maintaining a perpetual state of health
- **Accelerate the transition to a hybrid infrastructure** - specific performance and cost based decisions to migrate workload from on-premises to the cloud as well as between cloud service providers
- **Deliver cloud-like economics on-premises** - accurately map the end-to-end relationships from app workloads to blade servers, interconnects and storage arrays, empowering the same team to manage 10x more workloads

Turbonomic's integration with HPE OneView has been tested and certified alongside composable infrastructure based on the HPE BladeSystem c7000, HPE 3PAR StoreServ and Virtual Connect. Turbonomic's HPE OneView integration automatically maintains an active inventory of resources under HPE OneView management, empowering users to seamlessly adopt the joint solution and effortlessly deliver the application performance their organization demands.

ANY APP, ANY CLOUD

Dynamically match application resource demand to composable infrastructure

To assure performance applications need sufficient access to CPU, Memory, Storage and Network resources. Turbonomic dynamically analyzes application demand and automatically makes placement, sizing and provisioning decisions across shared resources maintaining a perpetual state of health. Turbonomic users typically see an improvement in application response time by 30%1 or more and are able to deliver predictable quality of service levels for all applications.

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Leverage the Public Cloud for the Right Workloads

Deciding which applications to migrate to the public cloud is not an easy task. When should public cloud resources be used over on-premises compute and storage, and what about business or technical constraints? Turbonomic enables you to assure application performance while utilizing the underlying infrastructure, on-premises or in the public cloud, as efficiently as possible. With specific performance and cost-based decisions to migrate workloads from on-premises to the cloud as well as between cloud service providers, you can minimize your public cloud bills while assuring app performance.

Effectively Manage Converged Environments at Scale

Effectively managing converged environments at scale requires a real-time understanding of application resource demands and the available compute, storage and network resources. Turbonomic gains an understanding of the underlying composable infrastructure through HPE OneView and dynamically maps the end-to-end relationships from the application layer, through the virtualization and physical layers (e.g. databases, Java virtual machines, virtual machines, containers, blades, enclosures, interconnects, datastores, storage volumes).

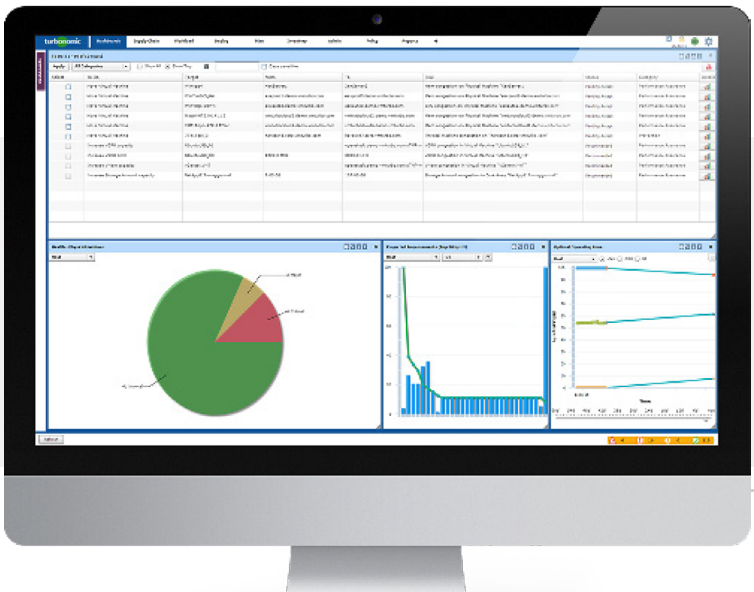
Real-time, Fully Automatable Decisions

The Turbonomic software continuously analyzes dynamic changes in application workload demand and matches it to compute, storage and network resources across the environment, providing real-time and fully automatable decisions that assure application performance. Decisions include: dynamically provision more or less compute capacity (blades) based on workload demand, providing on-demand capacity, and minimizing provisioning time; properly size storage volumes and map datastores based on real-time changes in demand; and live motion workloads to the properly size elastic infrastructure, etc.

With Turbonomic's automatable decisions, which take into account any business or technical policy, system administrators can more effectively manage 10x2 more workloads across more complex environments and deliver the application performance end-users demand.

IMMEDIATE TIME-TO-VALUE

- Deploys as a single virtual machine in any environment
- Delivers value in minutes – no new databases to configure, no thresholds to set, no time to learn what is “normal” in the environment – and provides actionable improvements in 30 minutes or less



References:

- Principled Technologies
- TechValidate TVID: 566-8F1-1D7 and TVID: 2E3-510-146

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